## IN THE CLAIMS:

Please cancel Claims 14, 15, 18, 21 and 22 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claims 1 to 13, 16, 17, 19 and 20 to read as follows.

1. (Currently Amended) A control apparatus for a vibration type actuator, which makes driving vibration at a driving unit of a vibration member by applying an alternating signal to an electro-mechanical energy conversion element and uses at least a frequency of the alternating signal as a speed control parameter, said control apparatus comprising:

a driving circuit capable of changing a driving voltage of the alternating signal to be applied to said electro-mechanical energy conversion element; and a control unit communicatively coupled to said driving circuit,

wherein said control unit causes said driving circuit to change the voltage of the alternating signal circuit which controls said driving circuit so that at least an absolute value of a slope of a frequency-speed characteristic of said actuator is within a desired range in a frequency band of predetermined range.

2. (Currently Amended) A control apparatus for a vibration type actuator, which makes driving vibration at a driving unit of a vibration member by applying an alternating signal to an electro-mechanical energy conversion element and uses at least a frequency of the alternating signal as a speed control parameter, said control apparatus comprising:

a driving circuit capable of changing a driving voltage of the alternating signal to be applied to said electro-mechanical energy conversion element; and a control unit communicatively coupled to said driving circuit,

wherein said control unit causes said driving circuit to change the voltage of the alternating signal circuit which controls said driving circuit so that an absolute value of a slope of a frequency-speed characteristic of said actuator is equal to or greater than a predetermined value at least in a frequency band of predetermined range.

- 3. (Currently Amended) An apparatus according to Claim 1, wherein said control circuit sets a change rate of the driving voltage relative to the frequency.
- 4. (Currently Amended) An apparatus according to Claim 2, wherein said control circuit sets a change rate of the driving voltage relative to the frequency.
- 5. (Currently Amended) An apparatus according to Claim 1, wherein said driving circuit includes a switching circuit which performs on and off operations in response to a driving pulse and applies a voltage according to the switching operation of said switching circuit to said electro-mechanical energy conversion element, and said control unit circuit changes the width of the driving pulse according to the frequency so that the absolute value of the slope of the frequency-speed characteristic of said actuator is within the predetermined range.
- 6. (Currently Amended) An apparatus according to Claim 2, wherein said driving circuit includes a switching circuit which performs on and off operations in response to a driving pulse and applies a voltage according to the switching operation of said switching circuit to said electro-mechanical energy conversion element, and said control unit circuit changes the width of the driving pulse according to the frequency so that the absolute value of the slope of the frequency-speed characteristic of said actuator is equal to or greater than the predetermined value.

- 7. (Currently Amended) An apparatus according to Claim 1, further comprising a detection circuit which detects a speed and/or a position of said vibration type actuator, wherein said control <u>unit circuit</u> changes the <u>driving</u> voltage on the basis of detection information from said detection circuit if said actuator reaches a predetermined position or a predetermined movement amount.
- 8. (Currently Amended) A control apparatus for a vibration type actuator, which makes driving vibration at a driving unit of a vibration member by applying an alternating signal to an electro-mechanical energy conversion element and controls at least a frequency of an alternating signal as a speed control parameter, said control apparatus comprising:

a driving circuit capable of changing a driving voltage of the alternating signal to be applied to said electro-mechanical energy conversion element; and a control unit communicatively coupled to said driving circuit,

wherein said control unit controls said driving circuit for at least performing control in a frequency range higher than a predetermined frequency so that the driving voltage of the alternating signal to be applied to said electro-mechanical energy conversion element by said driving circuit decreases as the predetermined frequency becomes a higher frequency.

9. (Currently Amended) An apparatus according to Claim 8, wherein said control <u>unit circuit</u> decreases the <u>driving</u> voltage to be applied to said electromechanical energy conversion element as the predetermined frequency becomes a higher frequency so that an absolute value of a slope of a frequency-speed characteristic in the case of changing a frequency of said actuator by a unit amount is within a predetermined range or is equal to or greater than a predetermined value.

- 10. (Currently Amended) An apparatus according to Claim 8, wherein the driving voltage is changed by changing a driving pulse width in said driving circuit for applying the driving voltage to said electro-mechanical energy conversion element.
- 11. (Currently Amended) An apparatus according to Claim 8, wherein the driving voltage is changed by changing a gain of an amplifier in said driving circuit for applying the driving voltage to said electro-mechanical energy conversion element.
- 12. (Currently Amended) A control method for a vibration type actuator which makes driving vibration at a driving unit of a vibration member by applying an alternating signal to an electro-mechanical energy conversion element and uses at least a frequency of the alternating signal as a speed control parameter, said control method comprising the steps of:

applying an alternating signal to the electro-mechanical energy conversion element; and

changing a driving voltage of the alternating signal to be applied by a driving circuit to the electro-mechanical energy conversion element; and

controlling the driving circuit so that at least an absolute value of a slope of a frequency-speed characteristic of the actuator is within a desired range in a frequency band of predetermined range.

13. (Currently Amended) A control method for a vibration type actuator which makes driving vibration at a driving unit of a vibration member by applying an alternating signal to an electro-mechanical energy conversion element and uses at least a frequency of the alternating signal as a speed control parameter, said control method comprising the steps of:

applying an alternating signal to the electro-mechanical energy conversion element; and

changing a driving voltage of the alternating signal to be applied by a driving circuit to the electro-mechanical energy conversion element; and

controlling the driving circuit so that an absolute value of a slope of a frequency-speed characteristic of the actuator is equal to or greater than a predetermined value at least in a frequency band of predetermined range.

Claims 14 and 15 (Cancelled).

- 16. (Currently Amended) A control method according to Claim 12, wherein said changing step includes performing on and off operations of a switching circuit in response to a driving pulse and applying a voltage according to the on and off switching operation to the electro-mechanical energy conversion element, and said controlling step includes changing the width of the driving pulse according to the frequency so that the absolute value of the slope of the frequency-speed characteristic of the actuator is within the predetermined range.
- 17. (Currently Amended) A control method according to Claim 13, wherein said changing step includes performing on and off operations of a switching circuit in response to a driving pulse and applying a voltage according to the on and off switching operation to the electro-mechanical energy conversion element, and said controlling step includes changing the width of the driving pulse according to the frequency so that the absolute value of the slope of the frequency-speed characteristic of the actuator is equal to or greater than the predetermined value.

Claim 18 (Cancelled).

19. (Currently Amended) A control method for a vibration type actuator which makes driving vibration at a driving unit of a vibration member by applying an alternating signal to an electro-mechanical energy conversion element and controls at least a frequency of an alternating signal as a speed control parameter, said control method comprising the steps of:

applying an alternating signal to the electro-mechanical energy conversion element; and

changing a driving voltage of the alternating signal to be applied by a driving circuit to the electro-mechanical energy conversion element; and

at least performing control in a frequency range higher than a predetermined frequency so that the driving voltage of the alternating signal to be applied to the electromechanical energy conversion element by the driving circuit decreases as the predetermined frequency becomes a higher frequency.

20. (Currently Amended) A control method according to Claim 19, wherein said changing controlling step includes decreasing the driving voltage to be applied to the electro-mechanical energy conversion element as the predetermined frequency becomes a higher frequency so that an absolute value of a slope of a frequency-speed characteristic in the case of changing a frequency of the actuator by a unit amount is within a predetermined range or is equal to or greater than a predetermined value.

Claims 21 and 22 (Cancelled).